



THE
ONTARIO WATER RESOURCES
COMMISSION
WATER POLLUTION SURVEY
of the
VILLAGE OF DRAYTON

August, 1965

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RESOURCES COMMISSION

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R E P O R T

on a

WATER POLLUTION SURVEY

of the

VILLAGE OF DRAYTON

August 1965

Division of Sanitary Engineering



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R E P O R T

ONTARIO WATER RESOURCES COMMISSION

I INTRODUCTION

At the request of the Village of Drayton a door-to-door sanitary survey of private water supply systems and pollution control facilities for the village was carried out on June 14, 15 and 16, 1965 in co-operation with the Wellington-Dufferin Health Unit.

II GENERAL

The Village of Drayton has a population of approximately 670. The Conestogo River flows through the village and receives drainage from the road-side ditches and storm sewers as well as from private drain outlets.

Other than a creamery and dairy there are no significant industries within the municipality.

A plan of the village showing the storm sewers and private wastewater connections is appended.

III WATER SUPPLY

There are 18 communal systems serving a total of 110 premises. The number of premises served by the communal systems ranges from 2 to 16. The remainder rely on individual supplies. There are approximately 70 wells in use, of which 50 are dug and 20 are drilled.

A total of 131 samples were collected for bacteriological examination from the 70 communal and private systems. Of the samples

collected 54, or 41 per cent, contained coliform organisms. Adverse samples were collected from 38 of the 70 systems sampled.

The presence of coliform organisms usually indicates contamination by wastes of human origin and therefore these organisms should not be tolerated in a potable water supply. When coliform organisms are present in a supply the water should be disinfected before consuming.

IV SEWAGE DISPOSAL

As part of the survey the persons contacted were interviewed to determine the type of sewage system in use and to determine the method of disposal of the system effluent. The data collected is tabulated below.

Type of System

Septic Tanks	-	135
Other	-	14
Unknown	-	21

Disposal of Effluent

	<u>Number</u>	<u>Per cent</u>
Storm Sewer (definite)	68	40%
Storm Sewer (probable)	10	6%
Field Tile System	61	36%
Unknown	31	18%

According to the figures presented, 40 per cent, and possibly 64 per cent, of the premises in the village are discharging wastewater either directly or via storm sewers to the Conestogo River.

The Drayton Dairy and the Drayton Creamery, two separate companies, have their wastewater discharges connected to storm sewers.

The quality and quantity of waste discharges from the storm sewers and private drains were not determined as part of this survey. However, since these discharges are for the most part untreated domestic and industrial wastes, they should not be allowed to continue.

V CONCLUSIONS

The results of the survey indicate a need for corrective action with regard to the present water-supply and waste-disposal systems in the village.

Although many of the systems could be corrected individually, the most suitable method of correction would be on a municipal basis.

VI RECOMMENDATION

It is recommended that the services of a consulting engineer be retained to investigate requirements for municipal water and sewage works schemes.

All of which is respectfully submitted

District Engineer

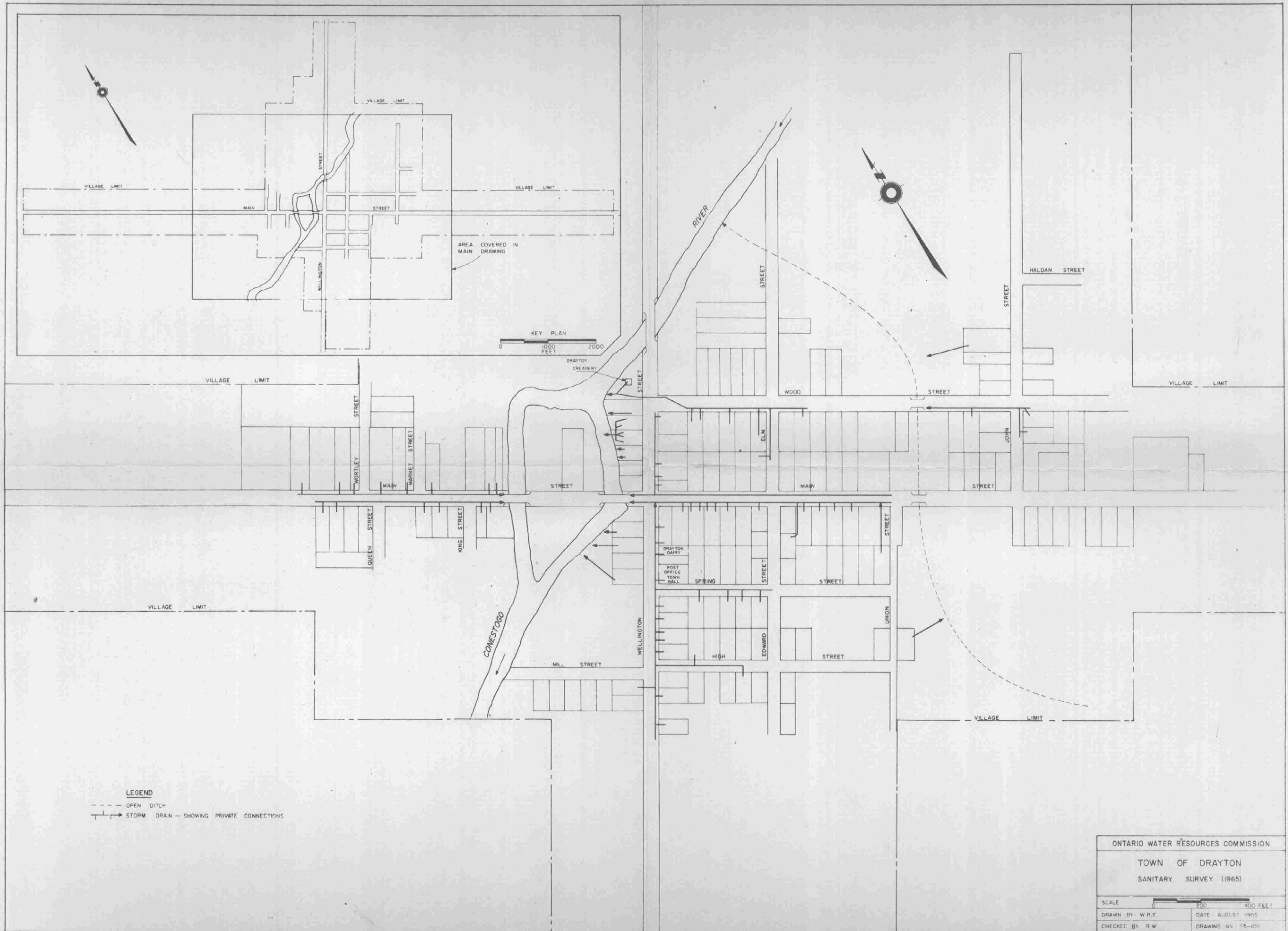
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